

Atty Dkt. No.: 10003512-1  
USSN: 09/771,092

**IN THE CLAIMS:**

1. (PREVIOUSLY PRESENTED) A method comprising dispensing drops from a pulse jet and striking the pulse jet at least once, wherein the pulse jet comprises a chamber and a thermoelectric or piezoelectric ejector in the chamber.
2. (ORIGINAL) A method according to claim 1 wherein the pulse jet is struck intermittently multiple times.
3. (ORIGINAL) The method of claim 2 wherein the pulse jet includes a housing enclosing a chamber and having a discharge opening for drops, and wherein the housing is struck on an outside surface with a member.
4. (ORIGINAL) The method according to claim 3 wherein the housing is struck in a same direction in which drops are ejected from the pulse jet.
5. (ORIGINAL) The method of claim 3 wherein the chamber is struck at a rate of 0.2 to 10 strikes/second.
6. (ORIGINAL) The method of claim 3 wherein the chamber is struck at a rate of 1 to 5 strikes/second.
7. (ORIGINAL) The method according to claim 3 wherein each strike delivers between 10 mJ to 150 mJ.
8. (ORIGINAL) The method according to claim 3 wherein each strike delivers between 50 mJ to 100 mJ.
9. (ORIGINAL) The method according to claim 2 wherein the pulse jet includes a thermoelectric ejector in the chamber.

Atty Dkt. No.: 10003512-1  
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10. (ORIGINAL) The method according to claim 2 wherein the pulse jet includes a piezoelectric ejector in the chamber.

11. (PREVIOUSLY PRESENTED) A method of fabricating an array of chemical moieties on a substrate, comprising:  
dispensing drops from a pulse jet onto the substrate so as to form the array; and  
intermittently striking the pulse jet multiple times;  
wherein the pulse jet comprises a chamber and a thermoelectric or piezoelectric ejector in the chamber.

12. (ORIGINAL) A method according to claim 11 wherein multiple strikes are applied between the dispensing of drops by the pulse jet.

13. (ORIGINAL) A method according to claim 11 wherein the chemical moieties are polynucleotides of different sequences.

14. (ORIGINAL) A method according to claim 13 wherein the polynucleotides are DNA.

Claims 15-34 (CANCELED)

35. (PREVIOUSLY PRESENTED) A method according to claim 1 wherein the striking improves pulse jet firing ability, relative to pulse jet firing absent the striking.

36. (PREVIOUSLY PRESENTED) A method according to claim 11 wherein the striking improves pulse jet firing reliability, relative to pulse jet firing absent the striking.

37. (CURRENTLY AMENDED) A method comprising dispensing drops from a pulse jet and striking the pulse jet at least once, wherein the pulse jet comprises a rigid chamber and a thermoelectric or piezoelectric ejector in the chamber.

Atty Dkt. No.: 10003512-1  
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38. (CURRENTLY AMENDED) A method according to claim 37 ~~[[4]]~~ wherein the pulse jet is struck intermittently multiple times.
39. (CURRENTLY AMENDED) A method of fabricating an array of chemical moieties on a substrate, comprising:  
dispensing drops from a pulse jet onto the substrate so as to form the array; and  
intermittently striking the pulse jet multiple times;  
wherein the pulse jet comprises a rigid chamber and a thermoelectric or piezoelectric ejector in the chamber.
40. (PREVIOUSLY PRESENTED) A method according to claim 39 wherein multiple strikes are applied between the dispensing of drops by the pulse jet.
41. (PREVIOUSLY PRESENTED) A method according to claim 39 wherein the chemical moieties are polynucleotides of different sequences.
42. (PREVIOUSLY PRESENTED) A method according to claim 41 wherein the polynucleotides are DNA.